DEPARTMENT OF HORSE-BREEDING OPERATIONS.

ANNUAL ADMINISTRATION REPORT

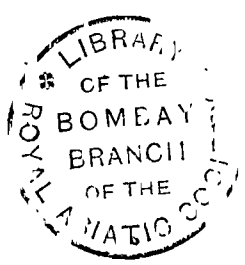
OF THE

BOMBAY PRESIDENCY

FOR THE

OFFICIAL YEAR 1890-91.

J. J. '9-14



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No. 992 of 1891.

From

J. K. GRAINGER, Esquire,
Superintendent, Horse-breeding Operations;

To

The SECRETARY to GOVERNMENT,
Revenue Department,
Bombay.

Office of the Superintendent, Department of Horse-breeding Operations, Bombay Presidency, Ahmednagar, dated 31st July 1891.

Sir,

I have the honour to submit for the consideration of His Excellency the Governor in Council, the Annual Administration Report of the Department of Horse-breeding Operations in the Bombay Presidency and Beluchistán for the official year 1890-91.

I beg to state that the delay in submitting this is owing to several of the reports from the District officers being sent in late.

I have the honour to be,
Sir,
Your most obedient Servant,
J. K. GRAINGER,
Superintendent, Horse-Breeding Operations,
Bombay Presidency.

GOVERNMENT OF BOMBAY.

DEPARTMENT OF HORSE-BREEDING OPERATIONS.

ANNUAL ADMINISTRATION REPORT FOR THE OFFICIAL YEAR 1890-91.

My tours in the Horse-Breeding Districts.

1. At the close of the last year I was at Deesa, thence I returned to my Head-quarters at Ahmednagar and remained there till the 20th of April 1890. I then went to Bombay for the purpose of assisting in the examination of the students of the Veterinary College. The examination lasted till the 1st of May, and after making a couple of days' halt at Poona, I returned to Ahmednagar.

2. Owing to a case of glanders in the Remount Rearing Depôt here and there being no other Veterinary Surgeon, I was obliged to remain the whole of May at Ahmednagar.

1st June to 15th July 1890.

3. From 1st June to 15th July I remained at Ahmednagar to do my office work. During this time I branded 17 mares for horse and 31 for pony.

4. From 14th of July to 15th of September I went on two months' privilege leave (*vide* Government Resolution No. 4688 in the Revenue Department, dated 5th July 1890) and Captain Williamson, the officer in charge of Remount Rearing Depôt, Ahmednagar, acted for me.

Poona, 29th September to 7th October 1890.

5. On my return from leave I remained at Ahmednagar till 28th of September and then proceeded to Poona to attend the Horse Show.

6. In point of number the show was the largest ever held in Poona. The quality of the exhibits in some classes was good, and in others the prizes were withheld owing to the incompetency of the exhibits.

7. During the show I branded 10 mares for horse, 8 for pony and rejected 15.

8. The marginally noted stallions were brought in for my inspection and I found them in good condition with the exception of "Kumayat," who had developed ringbone. He was recommended to be castrated and sold on recovery (*vide* Government Resolution No. 7688 in the Revenue Department, dated 29th October 1890).

Opal	T. B. E.	Model	N. T. E.
Dagobert	Do.	Young Freedom ...	Do.
Allan Bane ...	Do.	Tannaji	Arab.
Pradhan	Arab.	Rocket	Do.
Hakim	Do.	Ormonde	Do.
Hector	Do.	Adonis	T. B. E.
Chinkara	Do.		

9. My next journey was to Koregaon in the Sátára District where 95 mares were collected for my inspection. I branded 2 mares for horse and 6 for pony. Most of the mares were a wretched lot in poor condition.

Koregaon, 8th October 1890.

10. At Karád on the 9th, 325 mares were collected, out of which I branded 1 for horse, 54 for pony and rejected the rest. I think all the mares in the táluka were collected. Here I inspected the Government stallion "Kingcraft" and found him in good health.

Karád, 29th October 1890.

11. I then went to Athni in the Belgaum District where I branded 35 mares for pony and rejected 118. This was the first time the brand was introduced in this district. I

Athni, 11th October 1890.

found the breeders willingly accepting the brand. The pony stallion "Rizak" was in good condition.

Belgaum, 13th and 14th October 1890.

12. I remained at Belgaum on the 13th and 14th of October for the purpose of inspecting and branding mares, but I was disappointed, though timely intimation was given to the Collector of the District, and the Mámlatdar of Belgaum Táluka. Three mares from the city were sent to me, but they were a poor lot.

Dhárwár, 15th October 1890.

13. I next went to Dhárwár and branded 23 mares for pony and rejected 112. Many of the rejected ones were small and in poor condition.

14. The pony stallion "February" and the Pegu pony "Diamond" were in good condition. The Arab pony "Moochel" was suffering from partial paralysis of the hind extremities and I recommended him to be cast and sold (*vide* Government Memorandum in the Revenue Department, No. 7689, dated 29th October 1890).

Hubli, 16th October 1890.

15. Here I came on the 16th of October and inspected 70 mares and branded 5 for pony. The rejected were a wretched lot.

Gadag, 17th October 1890.

16. I branded 10 mares for pony and rejected 52. I also inspected the pony stallion "Tippoo" and found him in good condition.

17. In accordance with the orders contained in Government Resolution in the Revenue Department, No. 6963, dated 2nd October last, the number of stallions was reduced to two. One was cast and sold and the other has been transferred to Pandharpur in the Sholápur District.

Bijápur, 19th October 1890.

18. At Bijápur 39 mares were collected for my inspection and I branded 5 for horse, 14 for pony and rejected the rest. I inspected the Arab pony "March" and found him in excellent condition.

Sholápur, 20th October 1890.

19. I next proceeded to Sholápur where 75 mares were collected for my inspection and I branded 1 for horse and 26 for pony.

Bársi Road, 21st October 1890.

20. After giving due notice of my expected visit to this place to the Collector of Sholápur and the Mámlatdár of Mádha, I visited the place on the appointed date. I saw the Chief Constable of the táluka, when I asked him about mares. He showed me about 5. These were misshapen and unsound, so I had to reject them.

Shetfal, 22nd October 1890.

21. From here I marched to Shetfal in the same táluka where the above-mentioned Chief Constable had collected 15 mares for my inspection, and I branded 10 for pony. I told him that about 50 to 60 mares were collected at this place when I visited it last time, and asked why such a small number was collected now. He replied it was owing to the Dasra holiday (on the 23rd there was Dasara holiday). I told him that I would visit the place on my way back from Pandharpur on the 27th and to try and collect mares for my inspection, but none were forthcoming.

Pandharpur, 24th October 1890.

22. Here 150 mares were collected for my inspection and I branded 10 for horse and 34 for pony. The Mámlatdár appeared to me to be energetic, and there being a sufficient number of branded mares, I transferred one pony stallion from Dhárwár to this place.

Sángola, 26th October 1890.

23. From Pandharpur I marched to Sángola where I branded 7 mares for horse and 23 for pony.

24. I inspected the stallion "Mootrib" stationed here and found him in good condition. The Mámlatdar of this place rendered me good assistance.

25. On my way back to Bársi Road I again made a halt at this place as stated in paragraph 21 of this report. This time I branded 2 mares for horse and 8 for pony.

Shetfal, 27th October 1890.

26. I came here for the purpose of attending the Ahmednagar Horse Show, which was to be held on the 3rd, 4th and 5th of November, but on arrival I found no signs of Horse Show and therefore I fixed the dates of my tour in Gujarát.

Ahmednagar, 31st October to 4th November 1890.

27. On the 14th of November the Honorary Secretary of the Ahmednagar Horse Show informed me that the show was to be held on the 30th, 31st of December 1890 and 1st January 1891.

28. I was not informed of the change of the dates, nor was I consulted as to whether the dates would suit me as is required to be done in accordance with the orders contained in the Government Resolution in the Revenue Department, No. 7298, dated 14th October 1886. The prospectus was already published and it was too late for me to suggest any other date.

29. Had not the date of the Jacobabad Horse Show been changed from 5th to 12th January, I should have been unable to attend this show.

30. I hope Government will be pleased to renew the orders contained in the abovementioned Government Resolution and draw the attention of the district officers to them.

Ahmedabad, 6th November 1890.

31. I commenced my tour in Gujarát here on the 6th. I branded 1 mare for horse and 3 for pony.

Cottenham	...	T. B. E.
Elzevier	...	Do.
Dispatch ...	...	N. T. E.
Harvester	...	Arab.
January ...	...	Do.
Angrya ...	...	Do.

32. I also inspected the stallions noted in the margin and found them in good condition. I noticed that the stallions did not get sufficient exercise and I requested the District officers to give them more.

33. It was reported to me that the T. B. E. stallion "Elzevier" was not in favour with the breeders, being a little too big; I transferred him to Deesa.

Sánand, 7th November 1890.

34. Here I branded 1 mare for horse and 7 for pony.

Viramgám, 9th November 1890.

35. At Viramgám only 9 mares were collected. I branded 1 for horse, 6 for pony and rejected 2.

Pátri, 10th November 1890.

36. I next went to Pátri and branded 5 mares for horse and 4 for pony.

Rájkot, 12th to 20th November 1890.

37. My next duty was to assist at the Rájkot Horse Show.

38. The total number of exhibits was 1,190 as compared with 610 of the year before. As this show was held during the time of His Excellency the Governor's visit, all the Chiefs had assembled and they brought their horses with them. I think this is the cause of the great swelling in the number of exhibits.

Ránpur, 23rd November.

39. From here I went to Ránpur in the Ahmedabad district and branded 12 mares for horse and rejected 40.

Uchadi, 24th November.

40. I then marched to Uchadi and branded 9 mares for horse and 2 for pony.

Dhandhuka, 26th November.

41. Here I branded 5 mares for horse and 1 for pony. I intended to remain here for a couple of days in order to give breeders a chance of getting their mares branded; but I could not do so as I received orders to attend the Civil Veterinary Conference held at Poona on the 29th November and following days, under the authority of

Government Resolution in the Revenue Department, No. 8083A., dated 15th November 1890.

42. The conference was held from 29th November to the 2nd of December. The proceedings are reviewed by Government in Resolution No. 2110 in the Revenue Department, dated 23rd March 1891.

Poona, 29th November to 2nd December.

Bárejdi, 4th December.

43. From Poona I returned to Bárejdi in the Ahmedabad district and branded 1 mare for horse and 3 for pony.

Ráipur, 5th December.

44. I then proceeded to Ráipur and branded 1 mare for horse and 8 for pony.

Harsol, 8th December.

45. At Harsol on the 8th, only 8 mares were branded for pony.

Parántíj, 12th December.

46. I arrived here on the 12th December and branded 9 mares for horse and 18 for pony. I inspected the stallion "Hassan" and found him in good condition.

Sádra, 13th December 1890.

47. I visited Sádra in Mahi Kántha and branded 1 mare for horse and 3 for pony.

Dángarva, 14th December 1890.

48. Here I branded only 2 mares for pony.

Messána, 15th December 1890.

49. Thence I marched to Messána and branded 4 mares for pony.

Deesa, 17th December 1890.

50. I inspected 29 mares and branded 2 for horse, 17 for pony and rejected 10. Out of the mares selected for horse brand, Major Elliot bought a very nice mare as a remount.

51. I inspected the Government stallions "Cottenham" and "Majeeb" and found them in excellent condition. "Cottenham" was transferred to Ahmedabad in place of "Elzevier," and "Majeeb" was transferred to Kaira in place of "Melton."

Palánpur, 19th December.

52. Here 53 mares were collected for my inspection and I branded 41 for horse and 9 for pony. The mares were a good lot.

Mehmadabad, 21st December.

53. From here I went to Mehmadabad in the Kaira District and branded 2 mares for horse and 12 for pony.

Kaira, 22nd December.

54. At Kaira I inspected the Government stallion "Melton" and found him in good health. I transferred him to Deesa. Here 17 mares were brought in and 1 was branded for horse, 14 for pony and rejected 2.

Ahmednagar, 29th December 1890 to 1st January 1891.

55. My next duty was to assist at the Ahmednagar Horse Show held in the last week in December. The show compares very favourably with that of Poona: though the number of exhibits was small, the quality was good. I think the decrease in the number was owing to the uncertainty of having the show till the last moment. A good many of the young stock of the district had been bought by the Remount Depôt.

56. During the show I branded 16 mares for horse and 19 for pony.

57. I inspected the stallions noted in the margin and found them in good condition. The pony stallion "Sailor Boy" was transferred to Shevgaon and the pony stallion "Mystic" retained at Ahmednagar.

Mainstay ...	... Arab.	Glendale...	... Arab.
Friendship	... do.	Orator ...	... do.
Mystic ...	... do.	Sirdar ...	... do.
Deshmookh	... do.	Zamindar	... do.

Jacobabad, 9th to 17th January 1891.

58. I attended the Horse Show held here in the second week of January 1891. In all 1,404 animals were exhibited. Many of the exhibits belonged to the Beluchis of the Upper Sind Frontier District.

59. In the Remount Class 182 animals were exhibited. The following number of animals were purchased for remount purposes.

By Army Remount Department	57
By Police	68
By Sind Regiments	22
Total ...	147

60. This year Lieutenant Hamilton had come from Multan to purchase mules, which was a step in the right direction.

61. The show was a success both in number and quality.

62. During the show I branded 48 mares for horse, 38 for pony and 80 for donkey.

Sobersides	T. B. E.
Shrewsbury	do.
Sir Peter	N. T. E.
Cupid	do.
Trustee	do.
Contract...	do.
Gold Mohor	Arab.
Mars	do.
Sir Frank	do.

Donkey Stallions.

Caliban	Italian.
Khandoba	do.
Patwari	do.
Bagput	do.
Maidas	do.
Colombo	do.
Ramghat	Cyprus.

63. All the stallions in the Jacobabad District, as per margin, were brought in for my inspection; all were in good condition.

Royal Visit	Arab.
Shahar	do
Nicholas	do.
Waverly	do.
Glencoe	do.
Latchkey...	do.

Donkey Stallions.

Shah Farid	Persian.
Banarji	do.

John	Persian.
Neddy	Arab.
Behera	do.
Balaam	do.
Gopiganj	Italian.
Hafizganj	do.
Kalloo...	do.
Achnera	Cyprus.
Changi ...	...Khurdistan.

64. Also the Shikápur stallions were assembled here, as per margin, and I found them all in good condition.

Shikárpur, 20th January 1891.

65. I next went to Shikárpur and branded 4 mares for horse and 3 for pony. The Mukhtiárkar of the place seems to have taken very little trouble to collect the mares.

Rádhan, 22nd January 1891.

66. Here I branded 1 mare for horse and 2 for pony. No pains were taken to collect the mares. I did not see the Mukhtiárkar of the táluka nor any of his subordinates.

Lárkhána, 24th January 1891.

67. Here 13 mares were branded for horse and 13 for pony.

Rohri, 28th January 1891.

68. I proceeded here on the 28th, and out of the wretched lot presented for my inspection, I branded 9 for pony and 3 for donkey.

Mirpur, 29th January 1891.

69. At Mirpur 55 mares were brought in for my inspection and I branded 4 for horse and 41 for donkey. Many of the mares were fit for mule-breeding.

Karáchi, 1st to 6th February 1891.

70. From here I went to Karáchi and remained there till the 7th of February, on which date I sailed for Mándvi. On my way to Karáchi, I inspected the stallion "Shammer" standing at Shewan in the Karáchi District and found him in fair condition, but not well groomed. While at Karáchi, I was engaged in my office work.

Mándvi, 8th and 9th February 1891.

71. I arrived at Cutch Mándvi on the 8th and inspected 23 mares and branded 8 for horse.

Bhúj, 10th to 14th February 1891.

72. There was a Horse Show at this time at Bhúj. About 151 animals were exhibited at this show. The quality was superior to that of last year. His Highness the Ráo of Cutch takes great interest in horse-breeding operations; but I should like to see the young stock by Government sires out of good mares grow into larger and more suitable animals for remount purposes.

73. I purchased 10 young stock for the Ahmednagar Remount Rearing Depôt.

Hampton	... T. B. E.
Scindia ...	... Arab.
Tahlim ...	... Do.
Glennore	... Do.

74. I inspected the marginally noted stallions and found them in good health. I found the Government stallion "Tahlim" very slow coverer, and as he was old and nearly worn out, I recommended him to be cast and sold. Here I branded 12 mares for horse and rejected 20.

Sibi, 20th to 27th February 1891

75. I arrived here on the morning of the 28th.

76. This year the show was held on the 23rd February 1891 and following days. About 837 horses competed for prizes as compared with 706 in last year. The show was a greater success than that of any previous year, both in number and quality.

77. The following is the detail of the number of remounts and young stock purchased for Government :—

For Bengal Cavalry	34
Do. Army Remount Department	19
Do. 6th Sind Horse	13
Do. 18th Bengal Lancers, Remounts	8
Do. 5th Sind Horse, Jacobabad, Remounts...	3
Do. Zhob Levy Corps, Remounts	76
Total ...	153

78. During the show I branded 175 mares for horse, 2 for pony and 6 for donkey stallion.

79. All the stallions in Beluchistán, as per margin, were assembled here for my inspection and I found them in good condition with the exception of "Ameer" and "Cyprus." "Ameer" was suffering from disease of the liver and I recommended him to be sent to Babugarh for treatment, as he had been sick for a considerable time. "Cyprus" had been suffering from œdema of the sheath, but was all right when I inspected him.

Songster...	...	...	T. B. E.
Brunno ...	...	...	N. T. E.
Akola ...	...	...	Arab.
Rangoon...	...	...	T. B. E.
Express ...	...	...	Arab.
Sportsman III ...		...	N. T. E.
Midnight	...	...	Do.
Reliance II	...	...	Do.
Hinghamswell ...		...	Do.
Sir Francis	...	...	T. B. E.
Duncan ...	...	...	Do.
Beaver ...	...	...	Arab.

Essau bin Curtas	..		Arab.
Ameer	...	...	Do
Sir James	...	...	N. T. E.
Rejeb	...	...	Arab.
Cyprus	...	...	Do.
Kohilan	...	...	Do.
Shamsher	...	...	Do.
Hassar	...	...	Do.
Lassa ..	...	...	Do.

Donkey Stallion.

Jeeramji	...	...	Persian.

When here, I was informed by Major Gaisford that 10 more stallions were required for Beluchistan and he expressed a wish that I would send him 2 good Arab horses.

Ahmedabad, 9th to 13th March 1890.

80. I then proceeded to Ahmedabad to attend the Horse Show.

81. This year 703 animals were exhibited as against 637 the year before. The show was a success both in number and quality, but I regretted to see a great many of the exhibits in very poor condition. I here purchased two nice remounts for Mr. Mackay, Superintendent of Police, Rájkot. The show this year will be held at an early date.

Dispatch	... N. T. E.	Majeeb ..	... Arab
Lord Napier	... Arab.	January ...	... Do.
Cottenham	... T. B. E.	Argrya ...	... Do.
Harvester	... Arab.	Hassan ...	... Do.
Kohinoor	... Do.		

82. The marginally noted stallions were brought in for my inspection and I found them all in good condition.

83. Here I branded 29 mares for horse and 87 for pony.

General Remarks.

84. *Stabling.*—I would here state that stabling is urgently required at the following places. This subject was brought to the notice of Government in paragraph 90 of the Annual Administration Report of the Department of Horse-breeding Operations for the year 1886-87 :—

Shetfal...	...	Sholápur District
Pandharpur	...	Do.
Sángola	...	Do.
Shiggaon	...	Dhárwár District
Hángal	...	Do.
Dahivádi	...	Sátára District.
Jámner...	...	Khándesh District
Bhadgaon	...	Do.
Sáveda ..	...	Do.
Dhándhuka	...	Ahmedabad District
Paráutij	...	Do.
Deesa ...	...	Pálanpur Superintendency
Schwan	...	Karáchi District.
Kandiáro	...	Hyderabad District.
Moro ...	...	Do.
Naushahro	...	Do.
Umarkot	...	Thar and Párkar District.
Mirpur	...	Shikárpur District.
Rohri ...	...	Do.
Mehar ...	...	Do.

85. *Mule-breeding.*—Although this branch of operations is in its infancy with us, still Lieutenant Hamilton, who attended the Jacobabad Horse Show this year, picked up some good mules. This officer was deputed by the Commissary General, Multan.

86. *Assistance rendered by the Superintendent to the Remount Depôt, Ahmednagar.*—During the year under report there was an outbreak of glanders in the Remount Depôt; so it was necessary for me to remain here and make a bi-weekly inspection and take other precautions to try and prevent the disease from spreading, and I am glad in this we were successful, as only one case had to be destroyed. At the same time I would strongly recommend that a Veterinary Surgeon should be appointed to the Depôt as I am away for at least eight months in the year and when the remounts arrive from Bombay, there is no veterinary supervision.

87. With regard to the remarks in paragraph 14 of Government Resolution No. 7961 in the Revenue Department, dated 8th November 1890, I beg to submit that so long as the scarcity of forage continues, the result of horse-breeding operations incommensurate with the expenditure incurred, will not be satisfactory.

88. This year also scarcity of forage continued in the districts of Dhárwár, Sátára, Khándesh, Sholápur, Ahmednagar, Ahmedabad and Kaira. My remarks on this point are the same as those given in paragraph 71 of the last Annual Administration Report.

89. The explanation required by paragraph 4 of the review on the last Administration Report is given in the remark column of Appendix VII.

90. The valuable assistance rendered to the Department by the following officers during the year under report is worthy of high commendation :—

Mr. Steele, Deputy Commissioner, Jacobabad; Colonel Hogg, Commandant, 6th Bombay Cavalry; Mr. Mackay, District Superintendent of Police, Káthiáwár; Mr. Lester, District Superintendent of Police, Ahmedabad; Major Yates, Political Agent, Thal Chotiali, and Major Gaisford, Political Agent, Quetta and Peshin; Captain Grantham, 6th Bombay Cavalry, Jacobabad.

Statistical Report.

Stallions : Number of.

91. The opening balance of the number and classes of horse stallions was as follows :—

	Horses.	Ponies.	Total.
Thorough-bred English	12	...	12
Half-bred English, including Norfolk Trotters ...	10	...	10
Arabs	27	34	61
Pegu	...	1	1
Total ...	49	35	84

Increase received during the year.

92. The increase in the number of stallions during the year has been as shown below :—

	Horses.	Ponies.	Total.
By purchase in India	3	...	3

93. Two of these have been kept at Ahmednagar for the use of the remount and outside mares. The third was sent to the 3rd Light Cavalry, Poona, to serve the regimental and district mares. The stallion covered 12 mares during his stay in the regiment. None of the breeders took advantage of the horse's services while he was at Poona, and, as he was no longer required, I had him removed to Sirur.

Decrease : Casualties.

94. A reference to Appendix I will show that, during the year under report, one stallion died from injuries received by falling into a drain.

95. The percentage of casualties during this and the previous year will be found detailed below :—

	Died.
In 1889-90	4·76
In 1890-91	1·20

Sales.

96. Three stallions were sold during the year as detailed in Appendix II. One for impotence, another had developed ringbone, and the third was suffering from partial paralysis of the hind extremities.

Number of stallions present.

97. At the close of the year under report the number and classes of horse stallions remaining on the register was as follows :—

	Horses.	Ponies.	Total.
Thorough-bred English	11	...	11
Half-bred English, including Norfolk Trotters ...	10	...	10
Arabs	29	32	61
Pegu	...	1	1
Total ...	50	33	83

Classification.

98. The classification of these stallions will be found in Appendix III, a summary of which is given below :—

Very good	67
Good	30
Fair	5
Bad	2
Total ...	104

99. This number includes the stallions serving in Beluchistán. The two stallions shown as bad have been disposed of after the close of the year as they were found to be impotent.

Distribution.

100. The number of horse stallions distributed in several breeding districts during the last thirteen years is shown in the following table :—

Provinces.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.	1890-91.
Deccan	27	41	40	45	47	41	37	45	55	58	55	50	48
Gujarát	17	22	20	24	20	18	18	19	20	17	14	11	11
Sind and Cutch ...	12	12	9	9	13	16	17	17	28	28	27	23	24
Biluchistán ...	...	...	...	...	...	4	3	8	19	14	13	19	21
Total ...	56	75	69	78	80	79	75	89	122	117	109	103	104

Of the total strength 104 (including Beluchistán) on the register, the number actually employed at stud work during the year was 90. The remainder were at Depôt either for acclimatization, or temporarily unfit for service.

Map of horse-breeding operations.

101. Appendix IV is the map of horse-breeding operations, on which are noted the names of stands where stallions are located in the breeding districts of Bombay Presidency and Beluchistán. Horse stands are shown in red and donkey stands in green type.

102. Appendices V and VI show the number and classes of horse and donkey stallions, the number of branded mares and the number of coverings at each stand.

103. Appendices VII and VIII show the number of days and the stand at which each horse and donkey stallion was employed; also the total number of mares covered during the year.

104. The following is a list of horse and donkey stallion stands abolished and established during the year under report:—

Horse or Donkey Stand.	Name of Stand.	In the District of.
	Stands abolished.	
Horse	Sholápur	Sholápur.
Do.	Dhárwár	Dhárwár.
Do.	Shirpur	Khándesh.
Do.	Chopda	Do.
Do.	Duki	Beluchistán.
Donkey	Sirur	Poona.
Do.	Kandiáro	Hyderabad in Sind.
Do.	Mehar	Shikárpur.
Do.	Khahan	Beluchistán.
	Stands established.	
Horse	Shevgaon	Ahmednagar.
Do.	Shetfal	Sholápur.
Do.	Pandharpur	Do.
Do.	Shiggaon	Dhárwár.
Do.	Hángal	Do.
Do.	Bhadgaon	Khándesh.
Do.	Sávda	Do.
Do.	Dera Bugti	Beluchistán.
Do.	Khuduk	Do.
Do.	Shoharan	Do.
Donkey	Naushahro	Hyderabad Sind.
Do.	Sukkur	Shikárpur.
Do.	Ubauro	Do.
Do.	Ráto-dero	Do.
Do.	Garhi Yásin	Do.
Do.	Drakhan	Do.
Do.	Sibi...	Beluchistán.

Stallions: Demand for.

105. Horse-breeding is progressing satisfactorily in the ditricts of Poona, Ahmednagar and Sholápur. In the remaining districts of Deccan, the industry is steady. In Gujarát and Cutch the industry is steady. The horse-breeding in the backward districts can be greatly improved and extended if encouragement is given to the industry by district authorities. Horse-breeding is flourishing in Sind and Beluchistán.

Further supply of stallions.

106. I expect to receive one thorough-bred and one Norfolk Trotter from England in the next trooping season, and I shall have to purchase about five stallions locally.

Cost of keep, &c., of horse stallions.

107. Appendix IX shows the cost of feed, keep and attendants, including transit charges. The figures noted below give the general average during the past thirteen years:—

	Rs.	a.	p.		Rs.	a.	p.
In 1878-79	442	9	0	In 1885-86	317	6	5
„ 1879-80	358	5	0	„ 1886-87	341	2	7
„ 1880-81	301	1	0	„ 1887-88	362	12	5
„ 1881-82	272	8	7	„ 1888-89	344	3	6
„ 1882-83	285	9	11	„ 1889-90	363	0	6
„ 1883-84	319	10	8	„ 1890-91	343	5	5
„ 1884-85	339	5	3				

The general average, *viz.* Rs. 343-5-5, shows a decrease of Rs. 19-11-1 if compared with the figures of the previous year.

Branded mares : Number of.

108. At the beginning of the year under report, the number of branded mares on the registers was as follows :—

Provinces.	Horse.	Pony.	Total.
Deccan	1,200	5,330	6,530
Gujarát	911	931	1,842
Sind and Cutch	2,138	124	2,262
Beluchistán	723	13	736
Total ...	4,972	6,398	11,370

109. During the year the undermentioned mares have been added to the registers :—

Provinces.	Horse.	Pony.	Total.
Deccan	75	313	388
Gujarát	121	208	329
Sind and Cutch	79	57	136
Beluchistán	188	5	193
Total ...	463	583	1,046

110. The following number of branded mares has been removed from the registers for reasons noted below :—

	Horse.	Pony.	Total.
Died	9	30	39
Transferred to other Districts	2	3	5
Total ...	11	33	44

111. On the 31st March 1891, the number of mares remaining on the registers is shown in Appendix X and re-produced below :—

Provinces.	Horse.	Pony.	Total.
Deccan	1,256	5,612	6,877
Gujarát	1,031	1,137	2,168
Sind and Cutch	2,217	181	2,398
Beluchistán	911	18	929
Total ..	5,424	6,948	12,372

112. The results of the coverings of 1889-90 are given in Appendix XI. Undoubtedly the produce must be more than what has been shown in this statement; but owing to the reasons given in paragraph 84 of the Annual Report of this Department for 1888-89, no more information is forthcoming.

Number of mares covered.

113. The number of branded mares covered by Government horse stallions during the last thirteen years is shown below:—

In 1878-79	1,825	In 1885-86	2,317
„ 1879-80	1,881	„ 1886-87	2,765
„ 1880-81	2,185	„ 1887-88	3,578
„ 1881-82	2,403	„ 1888-89	3,282
„ 1882-83	2,508	„ 1889-90	3,143
„ 1883-84	1,792	„ 1890-91	3,270
„ 1884-85	1,884		

From the figures given above it will be observed that there is a satisfactory increase in the number of coverings this year if compared with the figures of the previous year.

114. The average number of branded mares covered per stallion during the year under report is given in Appendix XI and, for purposes of comparison, the figures of the last five years are also given below:—

In 1886-87	33·08	In 1889-90	36·34
„ 1887-88	35·10	„ 1890-91	37·5
„ 1888-89	35·53		

Produce: Number of.

115. The percentage of produce foaled during last five years to mares covered is shown below:—

In 1886-87	34·55	In 1889-90	33·61
„ 1887-88	37·42	„ 1890-91	34·68
„ 1888-89	37·32		

There is a slight increase in the percentage of produce foaled to mares covered in 1889-90.

Cast mares: Sale of.

116. During the year ending 31st March 1891 one cast mare was sold for brood purposes, as detailed in Appendix XII.

Number of country-bred remounts purchased.

117. The abstract given below shows the number of country-bred remounts purchased during the year under report. Particulars will be found noted in Appendix XIII:—

Bombay Native Cavalry	178
Police, Northern Division...	2
Police, Southern Division...	...
Police, Central Division	11
Police in Sind	77
Ahmednagar Remount Rearing Depôt	167
Total ...	435

118. There is an increase of 12, compared with the figures of last year's purchase.

119. Besides the abovementioned number, the following number of remounts were purchased by Major Chalmers and other Cavalry officers in Sind and Beluchistán; but they are not included in the foregoing abstract for reasons given in paragraph 112 of my Annual Report for 1889-90:—

Bengal Cavalry	34
Army Remount Department	19
18th Bengal Lancers	8
Zhob Levy Corps	76
Total ...	137

Castration of Colts.

120. The number of horse colts castrated by Government salutris during the year under report will be found in Appendix XIV. The number operated on during the last 10 years is given below:—

	Rs.		Rs.
In 1881-82 ...	11	In 1886-87 ...	68
„ 1882-83 ...	71	„ 1887-88 ...	76
„ 1883-84 ...	129	„ 1888-89 ...	98
„ 1884-85 ...	82	„ 1889-90 ...	72
„ 1885-86 ...	122	„ 1890-91 ...	127

There is an increase of 55 colts during the year if compared with the corresponding figures of 1889-90.

Besides this the Ahmednagar salutri castrated 146 colts from the Remount Depôt, Ahmednagar. He has been engaged at the Depôt since October 1890. He is required to treat the Depôt horses during my absence from head-quarters, as there is no other efficient qualified man on the Depôt establishment to do the work; therefore he has been unable to tour in the district with a view to castrating any breeder's colts.

I may state here that the abovementioned salutri was formerly in the Poona District, but, being a good and successful castrator, I had him exchanged to assist at the Depôt.

Mule-breeding.

Donkey stallions : Number of.

121. The number and classes of donkey stallions present on the registers on the 1st of April 1890 was as follows :—

Arabs	4
Bokhara	1
Italian	9
Persian	5
Khorasan	1
Cyprus	2
Khurdistan	1
Total ...	23

Increase during the year.

122. During the year under report four Italian donkey stallions were received by importation.

Decrease during the year.

123. The following donkey stallions were removed from the registers during the year under report :—

	Italian.	Khurdistan.	Total.
Transferred to Bengal Register	2	...	2
Sold	...	1	1
Total ...	2	1	3

124. The particulars of the one sold will be found in Appendix XV.

125. The numbers and breeds of donkey stallions present on the registers at the close of the year under report are given below :—

Arab	4
Bokhara	1
Italian	11
Persian	5
Khorasan	1
Cyprus	2
Total ...	24

Classification.

126. The following is a summary of the classification of the donkey stallions present—*vide* Appendix XVI. This includes the one donkey stallion serving in Beluchistán :—

Very good...	9
Good	13
Fair	3
Total ...	25

127. The demand for the services of the donkey stallions for mule-breeding is increasing. The four donkeys received during this year are much appreciated. I have indented for two donkey stallions.

Demand for donkey stallions.

128. The cost of feed, keep and attendants, including transit charges of the donkey stallions, is shown in Appendix XVII. The figures noted below give the general annual average during the past nine years :—

Cost of keep, &c., of the donkey stallions.

	Rs.	a.	p.		Rs.	a.	p.
In 1882-83 ...	233	9	0	In 1887-88 ...	291	7	7
„ 1883-84 ...	194	4	8	„ 1888-89 ...	260	0	6
„ 1884-85 ...	240	13	10	„ 1889-90 ...	270	5	5
„ 1885-86 ...	202	15	6	„ 1890-91 ...	272	5	10
„ 1886-87 ...	230	14	9				

Thus there is an increase of Rs. 2-0-5 in the general average if compared with the figures of the previous year. As the increase is small, it requires no explanation.

129. The number of pony mares covered during the last eight years by Government donkey stallions is shown below :—

Mares covered : Number of.

In 1883-84 ...	209	In 1887-88 ...	819
„ 1884-85 ...	294	„ 1888-89 ...	890
„ 1885-86 ...	338	„ 1889-90 ...	821
„ 1886-87 ...	616	„ 1890-91 ...	868

The number covered during the year under report shows an increase of 47 mares, compared with the figures of 1889-90.

130. A reference to Appendix XVIII will show that 61 mules are reported as foaled during the year under report against 73 of last year. The reasons for the falling off in the produce are the same as that given in paragraph 112 of this report.

Mule stock : Number of.

131. The expenses incurred for several Horse Shows held in this Presidency and Beluchistán are shown in Appendix XIX. The following prizes were awarded :—

	Rs.	a.	p.
Poona	3,200	0	0
Ahmednagar	600	0	0
Ahmedabad	2,575	0	0
Rájkot	1,982	8	0
Bhúj	1,267	0	2
Jacobabad	4,325	0	0
Sibi	2,348	0	0
Quetta	661	0	0
Total ...	16,963	8	2
Add—Other expenses	10,231	7	3
Grand Total ...	27,194	15	5

Of the above, Rs. 8,200 were paid from Provincial Revenues and Rs. 1,250 by the Imperial Government for Sibi and Quetta Horse Shows, and the balance, *viz.* Rs. 17,744-15-5, were contributed by local funds and subscriptions. The sources of contributions towards these shows are shown in Appendix XIX.

132. The number exhibited at these shows is given below with the corresponding figures of the previous years :—

In 1886-87	3,263
„ 1887-88	4,352
„ 1888-89	3,624
„ 1889-90	3,017
„ 1890-91	5,746

133. This shows an increase of 2,729 if compared with the figures of the last year. This year the figures of Quetta and Ahmednagar Shows are added to this. Besides there was an increase in the number of exhibits at all the other shows.

Cost of the Department.

134. The expenses incurred for the Superintendent and his office establishment are Rs. 9,922-1-5 against Rs. 9,545-1-1. This shows an increase of Rs. 377-0-4, which is due to the travelling expenses of the establishment from Jacobabad to Cutch and back to Sibi.

135. The total expenses of Rs. 68,502-0-7 have been divided into the following sub-heads :—

	Rs.	a.	p.
I.—Cost of Supervision	... 14,033	1	8
II.—Keep and purchase charges of stallions ...	... 45,018	14	11
III.—Prizes at Horse Shows	... 9,450	0	0
Total	... 68,502	0	7

of which the sum of Rs. 13,964-9-7 is debited to Local Funds, Rs. 8,418-0-0 is paid by the Government of India for expenses of Government stallions in Beluchistán and contributions towards Sibi and Quetta Horse Shows, and the remaining Rs. 46,119-7-0 is debited to Provincial Revenues. Thus Rs. 3,880-9-0 are saved from the sum allotted to this Department.

136. The amounts awarded as prizes by Government at the fairs and Horse Shows during the last ten years are given below :—

	Rs.	a.	p.		Rs.	a.	p.
In 1881-82	... 10,515	11	4	In 1886-87	... 9,400	0	0
„ 1882-83	... 11,866	8	0	„ 1887-88	... 9,900	0	0*
„ 1883-84	... 10,666	14	6	„ 1888-89	... 8,450	0	0*
„ 1884-85	... 8,370	0	0	„ 1889-90	... 7,600	0	0*
„ 1885-86	... 6,383	0	0	„ 1890-91	... 9,460	0	0*

* Includes the amount paid by Government of India towards Sibi and Quetta Horse Shows.

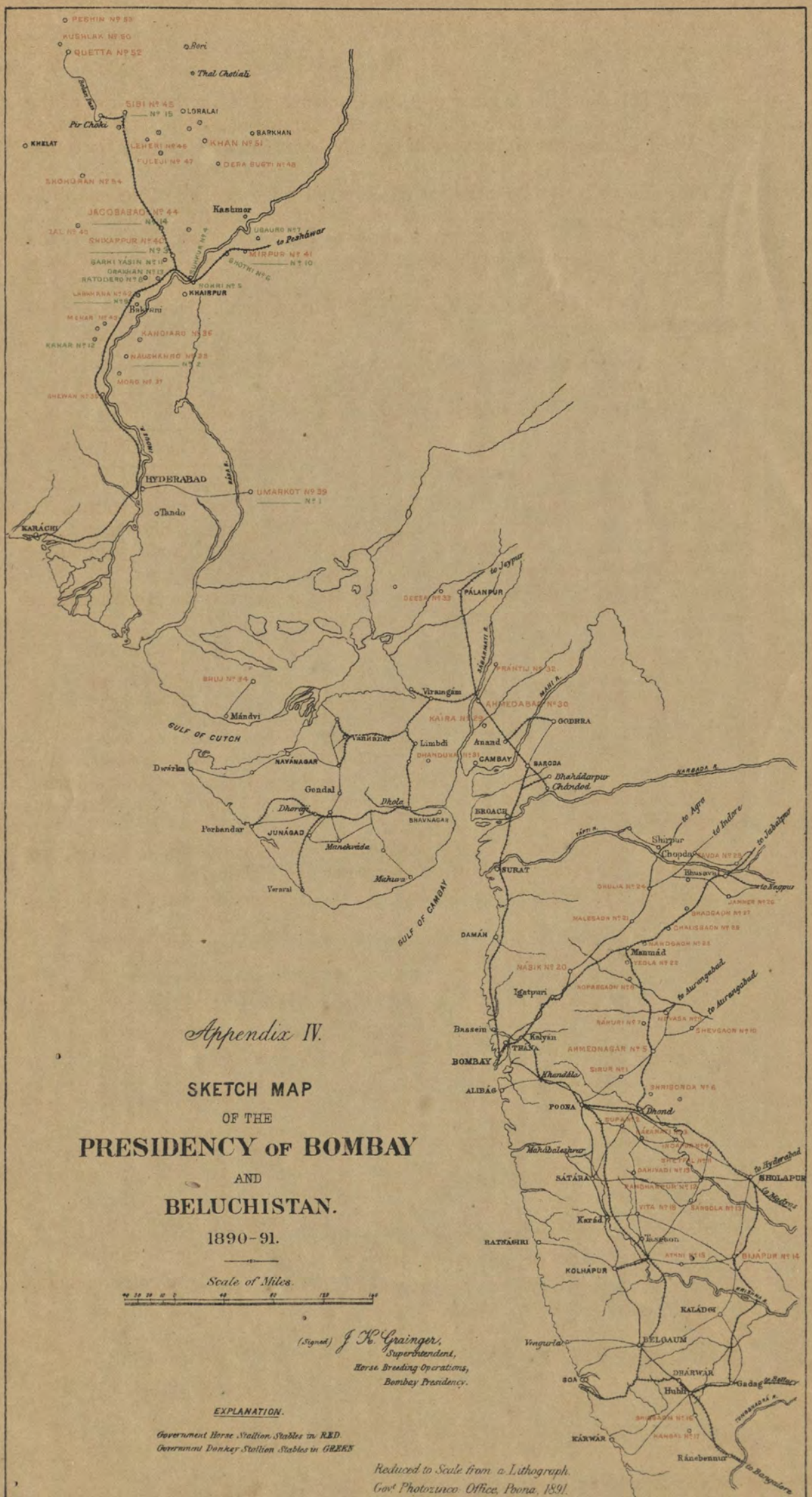
137. Rupees 4,200 were spent on account of the purchase of horses during the year under report. The average per annum for the last eleven years was Rs. 5,946-14-6.

138. The expenses under the head of Stallions' keep, &c., &c., are Rs. 28,012-11-0, excluding Biluchistán, against Rs. 32,068-7-9.

139. The expenses under this head for the last thirteen years have been as follows :—

				Rs.	a.	p.
In 1878-79	the cost of	$47\frac{8}{12}$	stallions' cost was	... 19,674	12	3
„ 1879-80	do.	$51\frac{7}{12}$	do.	... 18,484	1	3
„ 1880-81	do.	$51\frac{5}{8}$	do.	... 15,646	2	9
„ 1881-82	do.	65·81	do.	... 17,755	5	8
„ 1882-83	do.	73·32	do.	... 19,600	15	6
„ 1883-84	do.	72·78	do.	... 23,269	2	3
„ 1884-85	do.	70·28	do.	... 23,114	11	4
„ 1885-86	do.	76·06	do.	... 24,020	15	5
„ 1886-87	do.	93·69	do.	... 31,321	15	11
„ 1887-88	do.	100·40	do.	... 33,612	0	11
„ 1888-89	do.	100·002	do.	... 33,643	11	2
„ 1889-90	do.	91·42	do.	... 32,368	7	9
„ 1890-91	do.	76·77	do.	... 28,012	11	0

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.



Appendix IV.

SKETCH MAP
OF THE
PRESIDENCY OF BOMBAY
AND
BELUCHISTAN.
1890-91.

Scale of Miles.

(Signed) *J. K. Grainger,*
Superintendent,
Horse Breeding Operations,
Bombay Presidency.

EXPLANATION.

Government Horse Stallion Stables in RED.
Government Donkey Stallion Stables in GREEN

Reduced to Scale from a Lithograph.
Gov^t Photozinco Office, Poona, 1891.

APPENDIX I.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Casualty Roll of Horse Stallions in the Bombay Presidency during the official year 1890-91.

No.	English Name.	Native Name.	Class.	Description of Casualty.	Date of Casualty.	Nature of Casualty.
1	Altcar ...	...	T.B.E.	Died ...	30th April 1890 ...	From injuries received by falling into a drain.

ABSTRACT.

Presidency.	Province.	Number died.	Number destroyed.	Total.	Average Death.	Average destroyed.	General Average.
Bombay ...	Deccan	1	...	1	1·20	...	1·20

APPENDIX II.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement of Horse Stallions sold during the year 1890-91.

No.	English Name.	Native Name.	Class.	Date of Sale.	Name of Purchaser.	Amount sold for.	Remarks.
						Rs. a. p.	
1	.....	Nana	Arab ...	6th December 1890...	Pratap Biji Guru Darshan.	25 0 0	Old and worn out.
2	.....	Kumayat ...	Do. ...	15th November 1890.	Unknown	76 12 0	He developed ringbone.
3	.....	Moochel... ...	Do. ...	23rd January 1890 ...	Shamsundar Ramswamy Mudliar.	5 0 0	Was suffering from partial paralysis of the hind extremities.

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX III.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing classification and distribution of Horse Stallions attached to the Department of Horse-breeding Operations during the official year 1890-91.

Class of Stallions.	DECCAN.				GUJARA'T.			SIND AND CUTCH.					BELUCHISTA'N.				GRAND TOTAL.
	Very good.	Good.	Fair.	Total.	Very good.	Good.	Total.	Very good.	Good	Fair.	Bad.	Total.	Very good.	Good.	Fair.	Total.	
Thorough-bred English ...	5	1	...	6	2	...	2	2	1	...	...	3	3	...	1	4	15
Half-bred English, including Norfolk Trottors	5	...	...	5	1	...	1	4	...	...	...	4	6	...	...	6	16
Arabs	15	19	2	36	4	4	8	9	4	2	2	17	10	1	...	11	72
Pegu	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
Total ...	26	20	2	48	7	4	11	15	5	2	2	24	19	1	1	21	104

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX V.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Index to the Map of Horse-breeding Operations in the Bombay Presidency and Beluchistán, during the year 1890-91.

Number.	Names of Stallion Stands.	Class of Horse and Pony Stallions at each Stand.				Total.			Number of branded Mares remaining on 1st April 1891.		Number of branded Mares covered during 1890-91.		Average number of branded Mares covered per Stallion.		Remarks.
		T. B. E.	N. T. E.	Arab.	Pegu.	Horse.	Pony.	Total.	Horse.	Pony.	Horse.	Pony.	Horse.	Pony.	
1	Sirúr	3	1	3	...	5	2	7	205	141	176	91	35·2	45·5	
2	Supa	...	1	2	...	1	2	3	182	126	39	65	39	32·5	
3	Bárámati	...	...	3	...	1	2	3	55	38	41	19	41	9·5	
4	Indápur	1	...	1	...	1	1	2	52	59	27	5	27	5	
5	Ahmednagar... ...	2	2	3	...	6	1	7	171	148	152	27	25·3	27	
6	Shrígonda	...	...	2	...	1	1	2	165	462	24	24	24	24	
7	Ráhuri	...	...	1	...	1	...	1	104	556	29	...	29	...	
8	Kopargaon	...	...	1	...	...	1	1	3	6	...	27	...	27	
9	Nevása	...	...	2	...	...	2	2	29	438	...	51	...	25·5	
10	Shevgaon	...	...	2	...	1	1	2	...	2	42	28	42	28	
11	Shetfal	...	...	1	..	1	...	1	3	44	18	...	18	...	
12	Pandharpur	...	...	1	...	...	1	1	44	106	...	...	...	...	Newly transferred at the end of March 1891.
13	Sángola	...	...	1	...	1	...	1	130	226	32	...	32	...	
14	Bijápur	...	...	1	...	...	1	1	5	16	...	26	...	26	
15	Athni...	...	...	1	...	...	1	1	1	38	...	26	...	26	
16	Shiggaon	...	...	1	...	...	1	1	1	418	...	10	...	10	
17	Hángal	...	...	...	1	...	1	1	...	...	..	9	...	9	
18	Vita	...	...	1	...	1	...	1	16	255	21	...	21	...	
19	Dahivadi	...	...	1	...	...	1	1	14	122	...	34	...	34	
20	Násik	...	...	1	...	...	1	1	3	246	...	24	...	24	
21	Málegaon	...	...	1	...	...	1	1	...	402	...	31	...	31	
22	Yeola...	...	...	1	...	...	1	1	2	94	...	16	...	16	
23	Nándgaon	...	...	1	...	...	1	1	1	43	...	32	...	32	
24	Dhulia	...	...	1	...	...	1	1	19	486	...	15	...	15	
25	Chálisgaon	...	...	1	...	...	1	1	13	34	...	32	...	32	
26	Jámner	...	...	1	...	1	...	1	39	226	25	...	25	...	
27	Bhadgaon	...	...	1	...	...	1	1	...	...	...	34	...	34	
28	Sávda	...	...	1	...	...	1	1	8	880	...	31	...	31	
29	Kaira	...	...	1	...	...	1	1	116	261	...	14	...	14	
30	Ahmedabad	1	1	4	...	4	2	6	375	448	84	115	21	57·5	
31	Dhandhuka	...	...	1	...	1	...	1	29	4	21	...	21	...	
32	Paránt'j	...	...	1	...	...	1	1	76	254	...	42	...	42	
33	Deesa...	1	...	1	...	2	...	2	435	170	73	...	36·5	...	
34	Bhúj	1	...	3	...	4	...	4	530	10	142	...	35·5	...	
35	Sehwan	...	...	1	...	1	...	1	3	...	29	...	29	...	
36	Kandiáro	...	...	1	...	1	...	1	...	...	16	...	16	...	
37	Moro	...	...	1	...	...	1	1	60	...	...	33	...	33	
38	Naushahro	...	...	1	...	1	...	1	12	...	34	...	34	...	
39	Umarkot	...	...	1	...	1	...	1	26	1	36	...	36	...	
40	Shikárpur	...	...	1	...	1	...	1	187	5	14	...	14	...	
41	Mirpur	...	...	1	...	1	...	1	72	18	12	...	12	...	
42	Lárkhána	...	..	3	...	3	...	3	307	5	37	...	12·3	...	
43	Mehar	...	...	1	...	1	...	1	166	6	26	...	26	...	
44	Jacobabad	2	4	3	...	8	1	9	854	136	413	42	51·62	42	
45	Sibi	2	1	3	...	6	...	6	728	18	168	...	28	...	
46	Lehri	...	...	1	...	1	...	1	70	...	50	...	50	...	
47	Fuleji...	...	...	1	...	1	...	1	...	...	41	...	41	...	
48	Dera Bugti	...	...	1	...	1	...	1	...	...	46	...	46	...	
49	Zal	1	1	2	...	4	...	4	...	...	159	...	39·75	...	
50	Kushlak	...	1	...	...	1	...	1	...	...	60	...	60	...	
51	Khahan	...	...	1	...	1	...	1	62	...	45	...	45	...	
52	Quetta	...	2	...	...	2	...	2	51	...	70	...	35	...	
53	Peshin	1	1	1	...	3	...	3	...	...	111	...	37	...	
54	Shoharan	...	...	1	...	1	...	1	...	...	49	...	49	...	

J. K. GRAINGER,

Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX VI.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Index to the Map of Mule-breeding Operations in the Bombay Presidency and Beluchistán during the official year 1890-91.

Number of Donkey Stallion Stand.	Name of Donkey Stallion Stand.	CLASSES OF DONKEY STALLIONS AT EACH STAND.							Number of branded Mares remaining on 1st of April 1891.	Number of Mares covered during 1890-91.	Average number of Mares covered per Stallion.	REMARKS.
		Khorasan.	Arab.	Italian.	Bokhara.	Persian.	Cyprus.	Total.				
1	Umarkot	...	1	...	...	...	...	1	...	25	25	
2	Naushahro ...	...	...	1	1	...	...	2	3	87	43·5	
3	Shikárpur ...	...	1	2	...	...	...	3	80	101	33·6	
4	Sukkur	...	...	...	...	1	...	1	...	9	9	
5	Rohri	...	...	...	...	...	1	1	21	21	21	
6	Ghotki	1	...	...	...	...	...	1	1	6	6	
7	Ubáuro	...	...	...	...	1	...	1	...	47	47	
8	Ráto-dero... ...	...	...	...	...	1	...	1	...	31	31	
9	Lárkhána... ...	...	1	...	...	1	...	2	344	72	36	
10	Mirpur	...	...	1	...	...	...	1	116	47	47	
11	Gádhiásin ...	...	...	1	...	...	...	1	...	25	25	
12	Kakar	...	1	...	...	...	...	1	14	38	38	
13	Drákhán	...	...	1	...	...	...	1	...	2	2	
14	Jacobabad ...	...	...	5	...	1	1	7	170	335	47·85	
15	Sibi	...	...	...	...	1	...	1	9	22	22	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX VII.

GOVERNMENT OF BOMBAY.

Horse-Breeding Operations.

Statement showing where each Horse-Stallion was stationed and how many Mares he covered during the official year 1890-91.

Serial Number.	Name and Class of Horse Stallions.		Name of Stand at which stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1890-91.	Remarks showing reason why the full complement of Mares was not covered.
	Name.	Class.						
1	Opal	T. B. E. ...	Sirúr	365	...	44	44	
2	Pradhan	Arab ...	Do.	365	...	46	46	
3	Hakim	Do. ...	Do.	365	...	45	45	
4	Dagobert	T. B. E. ...	Do.	301	...	40	47	
			Ahmednagar ..	64	...	7		
5	Merrylegs	Do. ...	Sirúr	300	...	17	29	Was sick for many days.
			Ahmednagar ...	60	...	12		
6	Allan Bane	Do. ...	Sirúr	189	...	26	42	
			Ráhuri	103	...	9		
			Ahmednagar ..	72	...	7		
7	Samnite	Arab ...	Poona	140	...	12	14	New.
			Ahmednagar ...	38	...	2		
8	Altcar	T. B. E. ..	Supa	2	...	...	2	Died on 30th April 1890.
			Ahmednagar ..	22	...	2		
9	Hector	Arab ...	Supa	365	...	31	31	
10	Chinkara	Do. ...	Do.	365	...	34	34	
11	Model	N. T. E. ...	Do.	259	...	25	39	
			Ahmednagar ...	163	...	14		
12	Young Freedom ...	Do. ...	Bárámati	365	...	41	41	
13	Tanaji	Arab ...	Do.	365	...	14	14	Owing to the falling off in the covering rocket has been transferred to Nagar.
14	Rocket	Do. ...	Do.	365	...	5	5	
15	Kumayat	Do. ...	Indápur	187	...	7	7	Sold 15th November 1890.
16	Ormonde	Do. ...	Do.	365	...	5	5	Died since.
17	Adonis	T. B. E. ...	Do.	337	...	20	20	In the vicinity of Indápur there is a country-bred horse; hence the decrease in the covering. This horse is purposely kept here to attract the breeders, the owner of which runs down all the Government stallions to the breeders.
			Ahmednagar ...	22	...	...		
18	Wisechild	Do. ...	Do. ...	365	...	37	37	
19	Tam O'Shanter ...	Do. ...	Do. ...	299	...	24	30	Being old he is removed to Nagar Depôt. He is not allowed to cover many mares.
			Sirúr...	64	...	6		
20	Review	N. T. E. ...	Ahmednagar ...	299	...	30	34	
			Sirúr...	64	...	4		
21	Luminary	Do. ...	Ahmednagar ..	194	...	2	12	Cannot be induced to cover, therefore cast and sold since.
			Poona	109	...	10		
22	Silvermane	Arab ...	Ahmednagar ...	175	...	19	19	New.
23	Mystic	Do. ...	Do. ...	90	...	14	27	Lately removed to Nagar where his services were fully availed of. Now transferred to Yeola.
			Nevása	275	...	13		
24	Kaisar	Do. ...	Ahmednagar ...	266	...	22	22	New.
25	Mainstay	Do. ...	Shrigonda	365	...	24	24	
26	Friendship	Do. ...	Do.	365	...	24	24	
27	Deshmukh	Do. ...	Nevása	365	...	16	16	Is becoming old.
28	Sailor Boy	Do. ...	Do.	90	...	5	35	
			Ahmednagar ...	270	...	30		
29	Orator	Do. ...	Ráhuri	146	...	8	29	
			Ahmednagar ...	...	38	...		
			Sirúr	180	...	21		
30	Glendale	Do. ...	Kopergaon	365	...	27	27	
31	Sirdar	Do. ...	Shevgaon	146	...	5	28	
			Ahmednagar... ...	219	...	23		
32	Zamindar	Do. ...	Shevgaon	129	...	6	42	
			Supa	225	...	36		

APPENDIX VII—*continued.*

Serial Number.	Name and Class of Horse Stallions.		Name of Stand at which stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1890-91.	Remarks showing reason why the full complement of Mares was not covered.
	Name.	Class.						
33	Nuzzur	Arab ...	Sholápur	27	...	2	18	Was removed from Sholápur and is likely to get full complement of mares now.
			Shetfal	338	...	16		
34	Mootrib	Do. ...	Sángola	365	...	32	32	
35	March	Do. ...	Bijápur	365	...	26	26	This year the pony's services are well availed of. It is expected that he will get full complement.
36	Rizak	Do. ...	Athni	365	...	26	26	The branding system is introduced this year and he is likely to get good number of mares to cover.
37	February	Do. ...	Dhárwár	123	...	6	10	The number of stallions at Dhárwár is reduced to two.
			Shiggaum	242	...	4		
38	Moochel	Do. ...	Dhárwár	285	...	3	3	Sold 23rd January 1891.
39	Diamond	Pegu ...	Do.	184	...	2	9	
			Hángal	181	...	7		
40	Tippoo	Arab ...	Gadag	357	...	...	...	Transferred to Pandharpur at the end of March.
41	Spider	Do. ...	Shingnápur	4	...	1	34	
			Dahivádi	237	...	30		
			Mhasvad	13	...	1		
			Nágnáthvádi	14	...	2		
42	King Craft	Do. ...	Vita	335	...	19	21	
			Sátára	30	...	2		
43	Multum	Do. ...	Násik	365	...	24	24	Died since 29th April 1891.
44	Cruiser	Do. ...	Málegaon	365	...	31	31	
45	Clipper	Do. ...	Yeola	365	...	16	16	Was sick for many days.
46	Cyclone	Do. ...	Nándgaon	365	...	32	32	
47	Torpedo	Do. ...	Dhulia	365	...	15	15	
48	Pinto	Do. ...	Chálisgaon	365	...	32	32	
49	Monk	Do. ...	Bhadgaon	365	...	34	34	
50	Nana	Do. ...	Shirpur	250	50	6	6	
51	Grey Friar	Do. ...	Sávda	365	...	25	25	Sold 6th December 1890.
52	Kaldar	Do. ...	Jámner	365	...	25	25	
53	Majeeb	Do. ...	Kaira	152	...	14	14	
			Deesa	213	...	...		Service book is lost while on his way to Kaira.
54	Harvester	Do. ...	Ahmedabad	365	...	27	27	
55	Elzevier	T. B. E. ...	Bhúj	28	...	7	41	
			Deesa	90	...	16		
			Ahmedabad	240	...	18		
56	Dispatch	N. T. E. ...	Bhúj	28	...	3	26	
			Ahmedabad	337	...	23		
57	Lord Napier	Arab ...	Do.	102	...	5	13	
			Bhúj	28	...	2		
			Deesa	235	...	6		
58	January	Do. ...	Ahmedabad	365	...	59	59	
59	Cottenham	T. B. E. ...	Deesa	42	...	...	18	
			Ahmedabad	323	...	18		
60	Angrya	Arab ...	Do.	365	...	56	56	
61	Kohinoor	Do. ...	Dhandhuka	353	...	17	21	
			Ahmedabad	12	...	4		
62	Hassan	Do. ...	Paránt'j	357	...	37	42	
			Ahmedabad	8	...	5		
63	Melton	Do. ...	Deesa	166	...	6	32	
			Kaira	192	...	26		
64	Glennore	Do. ...	Bhúj	365	...	33	33	
65	Hampton	T. B. E. ...	Do.	359	15	46	46	
66	Scindia	Arab ...	Bachao	99	...	2	39	
			Bhúj	266	...	37		
67	Tahlim	Do. ...	Do.	349	...	24	24	
68	Shammer	Do. ...	Shewan	228	...	16	29	Sold since.
			Tatta	31	...	1		
			Mirpur Sákro ...	53	..	5		
			Mánjhand	38	...	7		
69	Dwarka	Arab ...	Naushahro	215	...	27	34	
			Kandiáro	115	...	7		
70	Paradox	Do. ...	Naushahro	365	...	33	33	

APPENDIX VII—*continued.*

Serial Number.	Name and Class of Horse Stallions.		Name of Stand at which stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1890-91	Remarks showing reason why the full complement of Mares was not covered.
	Name.	Class.						
71	Eureka	Arab ...	Naushahro	206	159	16	16	
72	Khatau	Do. ...	Umarkot	278	...	23	36	
			On tour	87	...	13		
73	Shahr	Do. ...	Mirpur	344	...	...	14	Sold on 27th May 1891.
			On tour	21	...	14		
74	Glencoe	Do. ...	Mehar	271	...	26	26	Died since.
			Jacobabad and on tour.	64	...	...		
75	Royal Visit	Do. ...	Shikárpur	323	...	8	12	
			Mirpur	42	...	4		
76	Latchkey	Do. ...	Lárkhána	318	...	8	8	
77	Nicholas	Do. ...	Do.	266	...	17	17	Sold 27th May 1891.
			Jacobabad and on tour.	99	...	...		
78	Waverly	Do. ...	Lárkhána	365	...	12	12	
79	Cupid	N. T. E. ...	Jocobabad	301	...	51	51	
			Shahdádpur ...	64	...	...		
80	Contract	Do. ...	Jocobabad	365	...	52	52	
81	Shrewsbury	T. B. E. ...	Do.	322	...	53	53	Was sent for change of air.
			Karáchi	43	...	...		
82	Sobersides	Do. ...	Jacobabad	355	10	50	50	
83	Trustee	N. T. E. ...	Do.	270	...	40	57	
			Thul	67	...	13		
			Kashmor	28	...	4		
84	Sir Peter	Do. ...	Jacobabad	107	...	6	57	
			Thul	258	...	51		
85	Sir Frank	Arab ...	Jacobabad	107	...	22	41	
			Kashmor	258	...	19		
86	Gold Mohor	Do. ...	Jacobabad	151	...	27	52	
			Thul	147	...	19		
			Kashmor	67	...	6		
87	Mars	Do. ...	Jacobabad	304	61	42	42	
88	Akola	Do. ...	Sibi	151	...	5	55	
			Panjpai	43	...	21		
			Quetta	158	...	29		
89	Sir James	N. T. E. ...	Sibi	138	...	11	60	
			Quetta	3	...	...		
			Peshin	189	...	42		
			Khulak	16	...	7		
90	Reliance II	Do. ...	Fulji	24	...	11	20	
			Loralai	1	...	...		
			Sibi	51	...	9		
91	Duncan	T. B. E. ...	Do.	78	...	12	12	
			Loralai	75	...	...		
92	Ameer	Arab ...	Sibi	151	80	6	6	Remained sick for a long time at Quetta.
			Quetta	201	201	...		
93	Kaitan	Do. ...	Sibi	19	...	8	26	
			Leheri	23	...	...		
			Zal	115	...	18		
			Rindli	189	...	...		
94	Beaver	Do. ...	Leheri	23	...	...	50	
			Fulji	286	...	45		
			Sibi	56	...	5		
95	Express	Do. ...	Fulji	24	...	6	41	
			Sibi	84	...	13		
			Loralai	30	1	...		
			Duki	215	...	22		
96	Hassar	Do. ...	Derabugti	24	...	5	46	
			Duki	20	...	...		
			Loralai	138	...	3		
			Sibi	105	...	12		
			Khahan	68	...	26		
97	Songster	T. B E. ...	Sibi	127	...	4	51	
			Zal	24	...	5		
			Quetta	136	...	8		
			Peshin	65	...	34		

APPENDIX VII—*concluded.*

Serial Number.	Name and Class of Horse Stallions.		Name of Stand at which stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total number of Mares covered during 1890-91.	Remarks showing reason why the full complement of Mares was not covered.
	Name.	Class.						
98	Midnight	N. T. E. ...	Sibi	127	...	5	58	
			Duki	47	...	14		
			Zal	23	...	5		
			Quetta	146	...	34		
99	Rejeb	Arab ...	Zal	24	...	4	18	
			Sibi	82	...	9		
			Loralai	1	...	...		
			Leheri	35	...	5		
100	Shamsher	Do. ...	Zal	138	...	26	32	
			Rindli	158	...	...		
			Sibi	18	...	6		
101	Sir Francis	T. B. E. ...	Do.	137	...	7	49	
			Leheri	23	...	...		
			Quetta	182	...	42		
102	Essau bin Curtas ...	Arab. ...	Leheri	285	...	37	45	
			Sibi	63	...	8		
103	Brunno	N. T. E. ...	Quetta	227	...	55	59	
			Sibi	129	...	4		
104	Hinghamswell ...	Do. ...	Quetta	16	...	3	11	New.
			Sibi	19	...	8		
105	Rangoon	T. B. E. ...	Quetta	8	...	...	13	New.
			Peshin	8	...	5		
			Sibi	19	...	8		
106	Sportsman III ...	N. T. E. ...	Quetta	46	...	15	59	
			Peshin	152	...	23		
			Sibi	105	...	13		
			Leheri	33	...	8		
107	Cyprus	Arab ...	Peshin	16	...	8	39	
			Leheri	285	...	31		
			Sibi	58	58	...		
108	Kohilan	Do. ...	Shoharan	345	4	45	49	
			Sibi	20	...	4		

J. K. GRAINGER,

Superintendent, Horse-Breeding Operations,
Bombay Presidency.

APPENDIX VIII.

GOVERNMENT OF BOMBAY

Mule-breeding Operations.

Statement showing where each Donkey Stallion was stationed, and how many Mares he covered during 1890-91.

Number.	Name and Class of Donkey Stallions.		Name of Stand where stationed.	Number of days at each Stand.	Number of days in Hospital.	Number of Mares covered at each Stand.	Total Number of Mares covered during 1890-91.	Remarks showing reasons why the full complement of mares was not covered.
	Name.	Class.						
1	Boanerges ...	Arab	Umarkot	365	...	25	25	
2	Pindi... ...	Italian ...	Naushahro	365	...	42	42	
3	Kandahari ...	Bokhara ...	Do.	215	...	34	45	
			Kandiáro	150	...	11		
4	Shah Ferid ...	Persian ...	Lárkhána	365	...	27	27	
5	Neddy ...	Arab	Do.	365	...	45	45	
6	Banefji ...	Persian ...	Rato-dero	365	...	31	31	
7	Hafijganj ...	Italian ...	Mehar and Garhi ...	365	...	25	25	
8	Plutus ...	Do. ...	Drakhan	17	...	2	2	Newly arrived.
9	Faust ...	Do. ...	Shikárpur	63	...	7	7	Do.
10	Colombo ...	Do. ...	Do.	49	...	9	44	
			Jacobabad	316	...	35		
11	John	Persian ...	Drakhan	155	...	6	9	
			Shikárpur	126	...	...		
			On tour	88	...	2		
			Sukkur	22	...	1		
12	Achnera ...	Cyprus ...	Rohri	301	...	20	21	
			On tour	64	...	1		
13	Chungi ...	Khorasan ...	Ghotki	305	...	5	6	
			Jacobabad	60	...	1		
14	Gopiganj ...	Italian ...	Rato-dero	310	...	42	47	
			On tour	13	...	1		
			Mirpur	42	...	4		
15	Kullu ...	Persian ...	Shikárpur	321	...	39	47	
			On tour	44	...	8		
16	Behera ...	Arab	Mehar	254	...	50	50	
			On tour	109				
17	Bhag	Kurdistan ...	Shikárpur	197	...	...	...	Slow coverer. Sold on 17th October 1890.
18	Balaam ...	Arab	Kukkur	258	...	38	38	
			On tour	107				
19	Ramghat ...	Cyprus ...	Jacobabad	365	...	70	70	
20	Khandoba ...	Italian ...	Do.	298	...	61	75	
			Shahdádpur... ...	67	...	14		
21	Bagput ...	Do. ...	Jacobabad	39	...	6	46	
			Thul	172	...	26		
			Shahdádpur... ...	87	...	9		
			Kashmor	67	...	5		
22	Patwari ...	Do. ...	Jacobabad	246	...	43	79	
			Thul	67	...	27		
			Tajo-dero	52	...	9		
23	Caliban ...	Do. ...	Jacobabad	129	...	14	14	Arrived on 23rd November 1890.
24	Socretes ...	Persian ...	Do.	49	...	12	46	
			6th Cavalry... ...	316	...	34		
25	Maidas ...	Italian ...	Jacobabad	80	...	5	5	Do.
			6th Cavalry... ...	49				
26	Jiramji ...	Do. ...	Derabugti	197	...	5	22	
			Sibi	40	...	5		
			Leheri	60	...	11		
			Kahan	68	...	1		

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX IX.

GOVERNMENT OF BOMBAY.

Horse-Breeding Operations.

Statement showing cost of feed, keep, attendants, &c., of Horse Stallions in the Bombay Presidency during 1890-91.

Provinces.	Districts.	Number of Stallions or Days.	Total Annual Cost.	Average per Horse Stallion per annum.	General average in each Province.
			Rs. a. p.	Rs. a. p.	Rs. a. p.
Deccan ...	Poona	5,615	5,329 1 0	342 6 7	.....
	Ahmednagar ...	5,006	4,680 10 10	341 4 5	.....
	Sholápur	730	564 12 5	282 6 2	.....
	Bijápur	365	273 13 6	273 13 6	.....
	Belgaum	365	466 12 8	466 12 8	.....
	Dhárwár	1,372	1,117 14 6	297 6 5	.....
	Sátára	730	632 3 11	316 1 11	.....
	Khándesh	2,075	1,854 14 6	326 4 6	.....
	Násik	1,460	1,149 13 7	287 7 4	.....
	Total ...	17,710	16,070 0 11	.....	331 3 3
Gujarát ...	Kaira	344	289 14 8	307 9 10	.....
	Ahmedabad ...	2,827	2,183 13 6	281 15 4	.....
	Deesa	721	635 5 4	321 10 1	.....
	Total ...	3,892	3,109 1 6	.....	291 9 2
Sind and Cutch.	Cutch	1,495	1,158 9 4	282 13 10	.....
	Karáchi	365	374 9 4	374 9 4	.....
	Thar and Párkar ...	365	380 0 10	380 0 10	.....
	Hyderabad ...	1,095	861 10 7	287 3 6	.....
	Jacobabad	3,285	4,414 11 3	490 8 4	.....
	Shikárpur	2,147	1,643 15 3	279 7 8	.....
	Total ...	8,752	8,833 8 7	.....	368 6 4
Beluchistán...	Sibi	3,538	3,701 10 8	381 14 1	.....
	Quetta	1,691	2,130 1 2	459 12 4	.....
	Kelat	879	1,112 3 6	461 13 5	.....
	Total ...	6,108	6,943 15 4	.....	414 15 3

ABSTRACT.

Provinces.	Average in each Province.
	Rs. a. p.
Deccan	331 3 3
Gujarát	291 9 2
Sind and Cutch	368 6 4
Beluchistan	414 15 3
General average ...	343 5 5

J. K. GRAINGER,

Superintendent, Horse-Breeding Operations,
Bombay Presidency.

APPENDIX X.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Annual Return of Stock in the Bombay Presidency during the official year ending 31st March 1891.

Details.	GOVERNMENT HORSE STALLIONS.						GOVERNMENT DONKEY STALLIONS.								BRANDED MARES, THE PROPERTY OF BREEDERS.			REMARKS.
	Thorough-bred English.	Half-bred English, Norfolk including Trotters.	Pegu Pony.	Arab Horse.	Arab Pony.	Total.	Arab.	Bokhara.	Italian.	Persian.	Khorasan.	Cyprus.	Khurdistan.	Total.	For Horse-breeding.	For Pony-breeding.	For Mule-breeding.	
Balance on the 1st April 1890... ...	12	10	1	27	34	84	4	1	9	5	1	2	1	23	4,972	6,398	662	
Increase. Received by importation ...	...	...	...	...	...	...	...	...	4	...	...	...	...	4	...	...	...	
Increase. Purchased in India ...	...	...	...	3	...	3	...	...	...	...	...	...	...	...	...	...	...	
Increase. Branded during the year ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	463	583	96	
Total ...	12	10	1	30	34	87	4	1	13	5	1	2	1	27	5,435	6,981	758	
Decrease. Died	1	...	...	...	...	1	...	...	...	...	...	...	...	...	9	30	...	
Decrease. Sold	...	...	...	1	2	3	...	...	...	...	...	...	1	1	...	..	...	
Decrease. Transferred to other districts.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	..	...	
Decrease. Transferred to Bengal ...	...	...	...	...	...	...	...	...	2	...	...	...	...	2	...	...	...	
Decrease. Struck off the Register ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	
Total ...	1	...	...	1	2	4	...	...	2	...	...	...	1	3	11	33	...	
Balance on 31st March 1891	11	10	1	29	32	83	4	1	11	5	1	2	...	24	5,424	6,948	758	
Total of each Class ...	83						24								5,524	6,948	758	
Deccan	48						..								1,265	5,612	...	
Gujarát	11						...								1,031	1,137	...	
Sind and Cutch	24						24								2,217	187	749	
Beluchistán	..						...								911	18	9	
Total ...	83						24								5,424	6,948	758	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XI.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement showing the Results of the year's Operations during the official year 1890-91.

Serial Number.	Province.	Number of branded Mares, the Property of Breeders, remaining on the Register on the 31st March 1891.	Number of branded Mares, the Property of Breeders, covered by Government Stallions.		Number of Government Stallions employed at Stud work.		Average number of branded Mares, covered in 1890-91 per Stallion employed during the year.	Number of Stock, the Property of Breeders, got by Government Stallions foaled during the year 1890-91, result of covering of 1889-90.												Number of Mares covered in 1889-90, the results of which are known.	Number of Government Stallions employed in 1889-90, the results of which with regard to coverings are known.	Percentage of produce foaled during 1890-91 to Mares covered in 1889-90.	Average number of produce foaled during 1890-91 per Stallion employed at stud work in 1889-90.
								Colts.						Fillies.									
			During 1889-90.	During 1890-91.	During 1889-90.	During 1890-91.		T. B. E.	N. T. E.	Australian.	Arab.	Pegu.	Total.	T. B. E.	N. T. E.	Australian.	Arab.	Pegu.	Total.	Grand Total.				
1	Deccan	6,877	1,322	1,288	41·39	40·5	31·8	14	17	...	183	2	216	18	23	...	154	2	197	413	1,115	36·25	37·04	11·39
2	Gujarát	2,168	409	349	11·	9·	38·7	10	...	...	35	...	45	6	...	...	35	...	41	86	310	10·	27·74	8·6
3	Sind and Cutch ...	2,398	826	834	20·10	20·8	40·09	10	19	...	48	...	77	5	20	...	37	...	62	139	425	13·10	32·70	10·06
4	Beluchistán	929	586	799	13·17	16·8	47·5	34	10	...	48	...	92	26	16	...	41	...	83	175	499	10·17	35·07	17·20
	Total ...	12,372	3,143	3,270	85·66	87·1	37·5	68	46	...	314	2	430	55	59	...	267	2	383	813	2,349	69·52	34·68	11·69

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XII.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing the number of Mares cast from Corps and Batteries and sold to bonâ-fide *Breeders for breeding purposes during 1890-91.*

Serial No.	Brand Number.	Colour.	From whence cast.		Date of Sale.	Sold for Horse or Mule breeding.	Name of Purchaser.	Price.	Remarks.
			Corps and Batteries.	Station.					
								Rs. a. p.	
1	Broad arrow.	Gray ...	Poona Horse.	Poona.	12th March 1891.	Horse-breeding.	Parwatrao Amrutrao.	42 0 0	

ABSTRACT.

Province.	Number of Mares.	Amount.	Average.
		Rs. a. p.	Rs. a. p.
Deccan	1	42 0 0	42 0 0

J. K. GRAINGER,
Superintendent, Horse-Breeding Operations,
Bombay Presidency.

APPENDIX XIII.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement of Remounts purchased during the official year 1890-91.

Presidency.	Remounts purchased by	Number of Remounts purchased.				Ages of Remounts purchased.											Breeds of Remounts purchased.				Remarks.
		Horses.	Mares.	Geldings.	Total.	Under 1 year.	1 and under 1½ year.	1½ and under 2 years.	2 years and over.	3 years and over.	4 years and over.	5 years and over.	6 years and over.	7 years and over.	8 years and over.	Total.	Produce of Government Stallions.	Class of Sires not known.	Country-bred.	Total.	
Bombay Presidency	Army Remount Department ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Bombay Native Cavalry ...	138	30	10	178	...	...	2	14	28	43	44	38	9	...	178	37	...	141	178	
	Police, Northern Division ...	1	1	...	2	...	...	...	...	...	...	1	1	...	...	2	...	...	2	2	
	Police, Central Division ...	11	...	...	11	..	...	...	...	...	2	3	4	1	1	11	...	9	2	11	
	Police, Southern Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Police in Sind	70	7	...	77	...	...	...	2	7	29	24	10	5	...	77	15	29	33	77	
	Remount Rearing Depôt at Ahmednagar	66	92	9	167	5	28	14	61	21	14	16	6	2	...	167	116	17	34	167	
	Total ...	286	130	19	435	5	28	16	77	56	88	88	59	17	1	435	168	55	212	435	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XIV.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing the number of Colts, the property of Zamindárs, castrated by District Sátutris and Castrators in the Bombay Presidency and Beluchistán Horse-breeding Districts during the official year 1890-91.

Province.	District.	Number of Colts castrated.	Number of Deaths resulting from effects of operation.	REMARKS.
Deccan... ...	Poona	21	.....	
	Ahmednagar	10	.....	
	Khándesh	35	.....	
Gujarát	Ahmedabad	13	.....	
Beluchistán ...	Sibi	29	.....	
	Quetta	19	.....	
	Total ...	127	.....	

APPENDIX XV.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement of Donkey Stallions sold during the official year 1890-91.

No.	Brand Number.	Name.	Class.	Date of Sale.	Name of Purchaser.	Amount sold for.	REMARKS.
						Rs. a. p.	
1	Nil ...	Bhag ...	Khurdistán.	14th October 1890.	Param Dulla ...	23 8 0	Old and worn out.

APPENDIX XVI.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement showing Classification and Distribution of Donkey Stallions attached to the Department of Horse-breeding Operations during the official year 1890-91.

Class of Stallions.	SIND.				BELUCHISTAN.		Grand Total.	REMARKS.
	Very good.	Good.	Fair.	Total.	Good.	Total.		
Bokhara	1	...	...	1	...	...	1	
Khorasan...	1	...	...	1	...	...	1	
Italian	3	6	2	11	...	...	11	
Persian	3	2	...	5	1	1	6	
Cyprus	1	1	...	2	...	...	2	
Arab	...	3	1	4	...	...	4	
Total ...	9	12	3	24	1	1	25	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XVII.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement showing Cost of Feed, Keep, Attendants, &c., &c., of Donkey Stallions in the Bombay Presidency during 1890-91.

Province.	District.	Number of Stallions or days.	Total Annual Cost.	Average per Stallion per annum.	General Average in each Province.	REMARKS.
			Rs. a. p.	Rs. a. p.	Rs. a. p.	
Deccan ...	Poona ...	29	44 2 2	555 9 0	.....	
	Total ...	29	44 2 2	.....	555 9 0	
Sind ...	Hyderabad .	730	416 5 3	208 2 7	.....	
	Umarkot ...	365	144 11 11	144 11 11	.....	
	Shikárpur ...	4,407	2,724 2 0	225 9 10	.....	
	Jacobabad ...	1,960	2,308 14 7	429 9 7	.....	
	Total ...	7,462	5,594 1 9	.....	273 9 7	
Beluchistán ...	Sibi ...	365	224 0 8	224 0 8	.....	
	Total ...	365	224 0 8	.....	224 0 8	

ABSTRACT.

Province.	Average in each Province.
	Rs. a. p.
Deccan...	555 9 0
Sind	273 9 7
Beluchistán	224 0 8
General Average ...	272 5 10

J. K. GRAINGER,

Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XVIII.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

General Statement showing the Results of the year's Operations during the official year 1890-91.

Serial Number.	Province.	Mares covered.		Number of Government Donkey Stallions employed at Stud work.		Average number of Mares covered during 1890-91 per Stallion employed in the year.	Mules by Government Donkey Stallions foaled during the year.																Grand Total.	Number of Mares covered in 1889-90 the results of which are known.	Number of Government Donkey Stallions employed in 1889-90 the results of which with regard to coverings are known.	Percentage of produce foaled during 1890-91 to Mares covered in 1889-90.	Average number of produce foaled during 1890-91 per Stallion employed in 1889-90.
							Colt Mules.								Filly Mules.											
		During 1889-90.	During 1890-91.	During 1889-90.	During 1890-91.		Arab.	Khorásan.	Cyprus.	Italian.	Bokhara.	Persian.	Kurdistan.	Total.	Arab.	Khorásan.	Cyprus.	Italian.	Bokhara.	Persian.	Kurdistán.	Total.					
1	Deccan	19	...	1	...	..	...	...	..	1	...	...	...	1	...	...	...	1	...	...	...	1	2	18	1	11·1	2
2	Sind	797	846	19	20	42·3	12	...	1	11	2	6	...	32	3	...	3	9	2	8	...	25	57	370	12·6	15·40	4·52
3	Beluchistán	5	22	·20	1	22	...	..	...	...	...	1	...	1	...	...	...	...	...	1	...	1	2	5	·20	40	10
	Total ...	821	868	20·20	21	41·3	12	...	1	12	2	7	...	34	3	...	3	10	2	9	...	27	61	393	13·80	15·5	4·42

J. K. GRAINGER,
Superintendent, Horse-Breeding Operations,
Bombay Presidency.

APPENDIX XIX.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement showing the Horse Shows held during the official year 1890-91.

Number.	Station.	Date.	Number of animals exhibited.	RECEIPTS.						EXPENDITURE.				Balance remaining for the next year.	REMARKS.
				Last year's Balance.	Government Grant.	Local Fund Grant.	By private Subscriptions.	From other sources.	Total.	Prizes. Number	Prizes. Value.	Other expenses incurred.	Total expenses.		
				Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Poona	3rd and 4th October 1890 ...	369	481 1 6	3,000 0 0	500 0 0	770 0 0	721 8 0	5,472 9 6	95	3,200 0 0	1,322 13 0	4,522 13 0	949 12 6	
2	Ahmednagar	30th December 1890... ...	160	3,043 5 4	600 0 0	300 0 0	168 3 5	324 6 4	4,435 15 1	44	605 0 0	1,166 11 5	1,771 11 5	2,664 3 8	
3	Ahmedabad	9th to 12th March 1891 ...	703	2,217 1 5	2,000 0 0	999 15 0	1,514 8 0	70 1 0	6,801 9 5	114	2,575 0 0	1,382 0 0	3,957 0 0	2,844 9 5	
4	Rájkot...	15th to 20th November 1890.	1,190	.....	600 0 0	.....	.....	5,250 0 0	5,850 0 0	114	1,982 8 0	3,424 9 11	5,407 1 11	442 14 1	
5	Bhúj	10th February 1891	458	.....	.....	.....	.....	2,006 0 2	2,006 0 2	98	1,267 0 2	739 0 0	2,006 0 2	.....	
6	Jacobabad	12th to 15th January 1891...	1,404	.....	2,000 0 0	3,700 0 0	.....	.....	5,700 0 0	258	4,325 0 0	1,375 0 0	5,700 0 0	.....	
7	Sibi	23rd to 26th February 1891.	1,273	.....	1,000 0 0	1,700 0 0	.....	.....	2,700 0 0	203	2,348 0 0	257 10 7	2,605 10 7	94 5 5	
8	Quetta	15th October 1890	189	.....	250 0 0	974 10 4	.....	.....	1,224 10 4	50	661 0 0	563 10 4	1,224 10 4	.....	
		Total ...	5,746	5,741 8 3	9,450 0 0	8,174 0 4	2,552 11 5	8,371 15 6	34,190 12 6	976	16,963 8 2	10,231 7 8	27,194 15 5	6,995 13 1	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX XX.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement of Expenditure during the official year 1890-91.

Number.	Heads of Expenditure.	Pay.	Travelling Allowance.	Service Stamps.	Telegrams.	Office Rent.	Miscellaneous Contingent Expenses.	Carriage of Office Records and Superintendent's Horses.	Cost of Feed, &c., &c.				Grand Total.	Remarks.
									Debited to Local Funds.	Debited to Provincial.	Paid by Government of India.	Total.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Superintendent	4,800 0 0	1,883 3 10	.....	...	.....	...	.....	.....	.....	.....	.....	6,683 3 10	
2	Office Establishment ...	2,156 9 7	1,082 4 0	.....	...	.....	...	.....	.....	.....	.....	.....	3,238 13 7	
3	Inspectors	1,140 0 0	342 12 0	.....	...	.....	...	.....	.....	.....	.....	.....	1,482 12 0	
4	Castrators	1,320 0 0	211 7 6	.....	...	.....	...	.....	.....	.....	.....	.....	1,531 7 6	
5	Office Expenses	.....	.....	100 0 0	41 12 0	240 0 0	6 4 0	708 12 9	.....	.....	.....	.....	1,096 12 9	
6	Stallions' keep, &c., &c.	.....	.....	.....	...	.....	...	.....	11,679 6 8	16,333 4 4	6,943 15 4	34,956 10 4	34,956 10 4	
7	Donkeys' keep, &c. ...	.....	.....	.....	...	.....	...	.....	2,285 2 11	3,353 1 0	224 0 8	5,862 4 7	5,862 4 7	
8	Stallions' purchase ...	.....	.....	.....	...	.....	...	.....	.....	.....	.....	.....	4,200 0 0	
9	Horse Shows	.....	.....	.....	...	.....	...	.....	.....	.....	.....	.....	9,450 0 0	
	Total ...	9,416 9 7	3,519 11 4	100 0 0	41 12 0	240 0 0	6 4 0	708 12 9	13,964 9 7	19,686 5 4	7,168 0 0	40,818 14 11	68,502 0 7	

J. K. GRAINGER,
Superintendent, Horse-breeding Operations,
Bombay Presidency.

No. 1986 of 1891.

Poona, 15*th August* 1891.

Forwarded with compliments. The following points are noted as important:—

2. Mr. Grainger recommends the entertainment of a Veterinary officer for the Ahmednagar Depôt, as, during his absence on tour, no veterinary aid is available. It seems clear that this recommendation is a sound one, but it will be for Government to decide whether a Veterinary Surgeon should be appointed *in addition* to the officer in charge of the Depôt. If a Veterinary officer on military duty is present at Ahmednagar, possibly the extension of his services to the Depôt could be arranged for. A salutri is already employed at the Depôt.

3. There were 104 stallions in the year under report as against 103 in the previous year, of which 48 were in the Deccan and Karnátak, 11 in Gujarát, 24 in Sind and Cutch, and 21 in Baluchistán. The average annual cost (Rs. 343-5-5) is still heavy, owing to high prices of fodder, though 5½ per cent. below the cost of the year preceding.

4. There were 3,270 mares covered as against 3,143 reported in the previous year with an average of 37·5 mares per stallion. These figures show a slight improvement, which is borne out by corresponding increase in the percentage of produce foaled, though not much reliance is to be placed on the produce statistics.

5. There was a slight decrease in the number of mares branded. The decision of Government is awaited on the continuance of the branding system. Meanwhile the stallions are undoubtedly doing little more than half their work and the practice must apparently be altered to meet this state of things. If the brand be not abandoned, it will probably not be found advisable to degrade its value through indiscriminate branding by Police or other District officers. The Superintendent's brand cannot, from the experience gained, be affixed to all the animals which the stallions could cover, but it would be of great value if retained to give a preferential claim to service.

6. The number of remounts purchased fell from 643 to 572, of which 296 were taken by the Native Cavalry, 90 by Police, 167 by the Ahmednagar Rearing Depôt, and 19 by the Army Remount Depôt.

7. Castration has made some progress. Apart from the operations at the Depôt (146), 127 horses were castrated as against 72 in the preceding year.

8. Mule-breeding is doing well in Sind and Baluchistán, but has obtained no footing in the Presidency proper. It is not probable that much progress will be made until the example is given by a Government mule-breeding establishment to show pony owners that a profit can be made in this direction.

9. Mr. Grainger points out that at a number of stations stabling is required for the stallions. At a few places sufficient help was not given in collecting mares for branding. A complaint is also made that due notice was not given of the dates of certain shows.

10. The Superintendent notes that at Ahmedabad the stallions were not getting proper exercise. It is well known that impotence is frequently attributable to this cause, which also accounts for other preventible ailments and casualties among these valuable stud animals. The importance of this point was brought out at the Veterinary Conference of 1890 (page 15 of the report).

There is reason to believe that this want of exercise is very general and leads to much failure and loss. In four months of the current year five stallions have been cast as useless and one has been transferred to another presidency. Of these casualties, several are due to alleged incompetence. Three (or four) horses have died. These are serious losses and seem to indicate that District officers should be called upon to arrange for the exercise of the horses, to the absence of which some of the casualties at least are pretty certainly due.

E. L. CAPPEL,
Director, Land Records and Agriculture, Bombay.

Annual Administration Report of the Department of Horse-Breeding Operations for 1890-91.

No. 1259.

REVENUE DEPARTMENT.

Bombay Castle, 19th February 1892.

Letter from the Under Secretary to the Government of India in the Revenue and Agricultural Department (*Horse-Breeding and Agricultural Department*), No. 1638—10, dated 8th August 1891.

Memorandum from the Superintendent, Horse-Breeding Operations, No. 1080, dated 17th August 1891.

Memorandum from the Director of Land Records and Agriculture, No. 2022, dated 18th August 1891.

Letter from the Superintendent of Horse-Breeding Operations, No. 992, dated 31st July 1891—Submitting the Annual Administration Report of the Department of Horse-Breeding Operations in the Bombay Presidency and Beluchistán for the year 1890-91.

Memorandum from the Director of Land Records and Agriculture, No. 1986, dated 15th August 1891—Forwarding the above with his remarks.

RESOLUTION.—Mr. Grainger appears to have moved actively about the Presidency during the year under review. He visited the marginally named districts of the Presidency proper and Sind, as also Deesa, Pálanpur and parts of Mahi Kántha, Cutch and Beluchistán. He attended the Horse-shows at Poona, Rájkot, Ahmednagar, Jacobabad, Sibi, Bhúj and Ahmedabad. In the course of his tour and at the various shows he branded a considerable number of mares and inspected the Government stallions. Mr. Grainger complains that the date originally fixed for the Ahmednagar show was subsequently changed by the Show Committee and that he was not informed of the change of date in time to enable him to avoid making an useless visit there. The omission on the part of the Show Committee is to be regretted.

Sátára.	Ahmedabad.
Sholápur.	Kaira.
Belgaum.	Shikarpur.
Dharwár.	Upper Sind Frontier.
Bijápur.	

2. There were on the Superintendent's register at the beginning of the year 49 horse and 35 pony stallions. Of these one died during the year and 3 were cast for unfitness; but to replace these three stallions were purchased locally. Including those stationed in Beluchistán, the total number of horse stallions in the Superintendent's charge at the end of the year was 104, of which 48 were in the Deccan and Southern Marátha Country, 11 in Gujarát, 24 in Sind and Cutch, and 21 in Beluchistán. In the course of his inspection at Ahmedabad Mr. Grainger brought to the notice of the District officers the fact that the stallions were not getting sufficient exercise, and it is hoped that due weight will be given to his opinion and to the remarks by the Director of Land Records and Agriculture in paragraph 10 of his memorandum. With reference to paragraph 84 of his report the Superintendent should be requested to submit, in communication with the local authorities concerned, through the Director of Land Records and Agriculture separate proposals showing definitely what stable accommodation is required at the several stations mentioned in that paragraph, what will be the cost of providing it, and how the charge should be met.

3. During the year under review 1,046 mares in all were branded as against 1,078 in the previous year. It appears from the statistics furnished in

the report that Mr. Grainger's long-deferred tour in the Belgaum, Dhárwár and Bijápur Districts was not attended with any satisfactory results. As compared with the figures* for the preceding three years, the number of mares (388) branded during the year in the Deccan and Southern Marátha Country shows a considerable falling off, which is attributed partly to the wretched condition of the animals brought up and partly to the want of co-operation on the part of some of the Táluka officers in collecting mares. The District officers should be requested to issue strict instructions to the Táluka officials in their respective charges to render every possible assistance to the Superintendent during his annual inspection tours. The question of making some change in the branding system now in force and of generally improving the present system of Horse-Breeding Operations is under the consideration of Government, and separate orders on the subject will be passed in due course on receipt of the report called for from the Director of Land Records and Agriculture in Government reference No. 6082, dated 5th September 1891.

*Year.	Number.
1887-88	835
1888-89	465
1889-90	706

4. Out of the 104 stallions in charge of the Superintendent the average number employed at stud work throughout the year is reported to have been 87·1 as against 85·66 in the preceding year. The total number of mares covered by the horse stallions during the year was 3,270 and the average number per stallion was 37·5, while the corresponding figures for 1889-90 were 3,143 and 36·34. The results of the coverings of 1889-90 ascertained during the year under review also show a slight improvement over those recorded in the preceding year, the total number of foals being 813 (430 colts and 383 fillies) as compared with 769 (419 colts and 350 fillies) in 1889-90.

5. The number of remounts purchased for this Presidency during the year under review was 435, of which 178 were for the Army, 90 for the Police and 167 for the Ahmednagar Remount Depôt. Of the remounts bought, 168 were the produce of Government stallions. Mr. Grainger reports that at the commencement of the year there was an outbreak of glanders in the Remount Depôt at Ahmednagar, which compelled him to remain at that place for nearly a month and which was successfully checked.

6. In addition to 146 colts gelded at the Ahmednagar Remount Depôt by the Salutri in charge of the depôt, 127 horses were castrated during the year in different parts of this Presidency. This latter number exceeds by 55 the number operated on in 1889-90 and by 45 the average number of the preceding three years.

7. There were 23 donkey stallions on the Superintendent's books on 1st April 1890. To these 4 new stallions imported from Italy were added during the year, while 2 were transferred to the Bengal register and one was sold, thus leaving 24 in charge of the Superintendent at the close of the year. The total number of mares covered by the donkey stallions was 868 as against 821 in the previous year but the resulting number of mules fell from 73 in 1889-90 to 61, figures which cannot be regarded as even approximately accurate.

8. The total expenditure was Rs. 68,502-0-7, of which Rs. 13,964-9-7 were debited to Local Funds and Rs. 8,418 were paid by the Government of India. The cost to Provincial Revenues of the year's operations was thus Rs. 46,119-7-0.

9. Although the percentage of foals dropped to coverings of the previous years compares not unfavourably with the results in such other provinces as Government can compare them with, this percentage cannot be regarded as a satisfactory return for the cost of the operations, if the figures given are to be relied on. Either the registers are quite untrustworthy, or improvement in the percentage of foals dropped to mares covered is possible. If the former is the

case, the Director of Land Records and Agriculture should consider if improvement cannot be secured. If the latter, the Superintendent of Horse-Breeding Operations should pay especial attention to the results of each stallion's work. It will be of convenience to Government if columns can be added to Appendix VII, showing against each horse his coverings of the previous year, and the foals attributed to him in the year of report.

10. This report does not relate to the period in which the Department has been supervised by the Director of Land Records and Agriculture, and that may account for the baldness of Mr. Cappel's review. The Director's next review should contain a comprehensive examination and discussion of the operations of the Department and of their results.

11. It appears from a report submitted by the Superintendent of Horse-Breeding Operations that the annual district returns required for his report were not received from some of the District officers till late in July last, and the report could not therefore be submitted to the Government of India by the prescribed date. To ensure the punctual submission of the report to the Government of India in future, the Collectors and Political Agents concerned should be requested to transmit their returns to the Superintendent by the 1st of May in each year.

T. D. MACKENZIE,
Chief Secretary to Government.

To

The Superintendent, Horse-Breeding Operations, The Commissioner, N. D., The Commissioner, C. D., The Commissioner, S. D., The Commissioner in Sind, All Collectors, including the Collectors and Deputy Commissioners in Sind, The Director of Land Records and Agriculture, The Accountant General, The Military Department of the Secretariat, The Political Department of the Secretariat.	With copies of the report.
The Secretary of State for India, The Government of India.	By letter.

No. of 1892.

Copy forwarded for information and guidance to

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